

Vetist 5

Veterinary Cone Beam Computed Tomography System Imaging Beyond Ordinary



5-in-1

Edge Enhancement; Multi-algorithms; Tools: TPLO/VHS/TTA

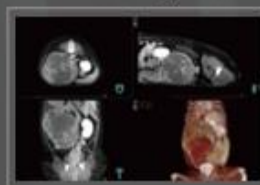


One Scan for Full Arch & Jaw



CT

3.8s Ultra-Fast Scan/0.14mm Ultra-Thin Slice Thickness/72cm X 42cm FOV/CT-AIR Breathing Hold



DR

FL

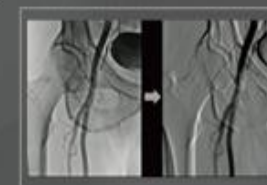
Real-Time Dynamic Enhancement
1-Minute Continuous Exposure
Precise Lesion Detection



Panoramic

DSA

Dynamic Subtraction Technology
visualizes vascular dynamics, aiding
diagnosis and treatment



Vetist 5: Core Imaging Parameters



Key Performance Metrics



Fastest scan time: 3.8 seconds

Fast large-area scanning to freeze respiratory motion artifacts.



Thinnest scan slice thickness: 0.14 mm

Thinner slice thickness for improved detection of micro-lesions.



X-ray tube power: 15 kW, 120 kV

High power output stably supports scanning of large animals.



Detector frame rate: 45 fps

Higher frame rate enables faster scanning speed with superior precision.



Number of reconstruction slices

Maximum reconstruction of 1000 slices.

42×72cm Ultra-Large Field of View (FOV) Scanning Range



Full-body coverage in one scan

Enables complete head-to-tail scanning of small and medium-sized animals in a single pass, eliminating the need for multiple repositioning and significantly improving examination efficiency.



Confident scanning for large animals

Easily covers the torso of large canine patients, reducing the hassle of segmented scanning caused by insufficient field of view for a smoother workflow.



Panoramic imaging for complete information

Displays more anatomical structures in a single image, avoiding missed critical pathological information due to FOV limitations for more comprehensive diagnoses.



Diameter: 42 cm

Length: 72 cm

Dual-Field Bone Imaging Platform

- Small-FOV High-Definition Bone Mode: High-resolution imaging for clear visualization of fine bone structures
- Large-FOV Balanced Bone Mode: Wide coverage for applications ranging from detailed local assessment to whole-body skeletal examination

CT-AIR Breath-Hold Platform

Guides animals to maintain breath-hold at end-inspiration via a built-in respiratory device, effectively eliminating motion artifacts and ensuring stable image acquisition

Large Animal Imaging Mode

Specifically designed for large animal body sizes, also supports triple-phase contrast imaging

Database-Assisted Reporting System

Built-in rich case database, enabling quick retrieval of similar cases to assist diagnosis and report generation

Experience-Triggered Triple-Phase Contrast Capture Platform

One-click automatic triple-phase contrast imaging, real-time observation with precise targeting, flexibly adapting to complex cases

Soft Tissue Imaging Mode

Optimized algorithms for clear visualization of soft tissue details, aiding precise lesion localization

Exotic Pet Diagnostic Mode

Integrated fast screening, standard diagnosis, and high-resolution modes to meet exotic pet clinical needs

Full-Scene Region-Specific Mode

Meets basic imaging needs for soft tissue, head, thorax, and abdomen, delivering clear image quality for routine clinical diagnosis

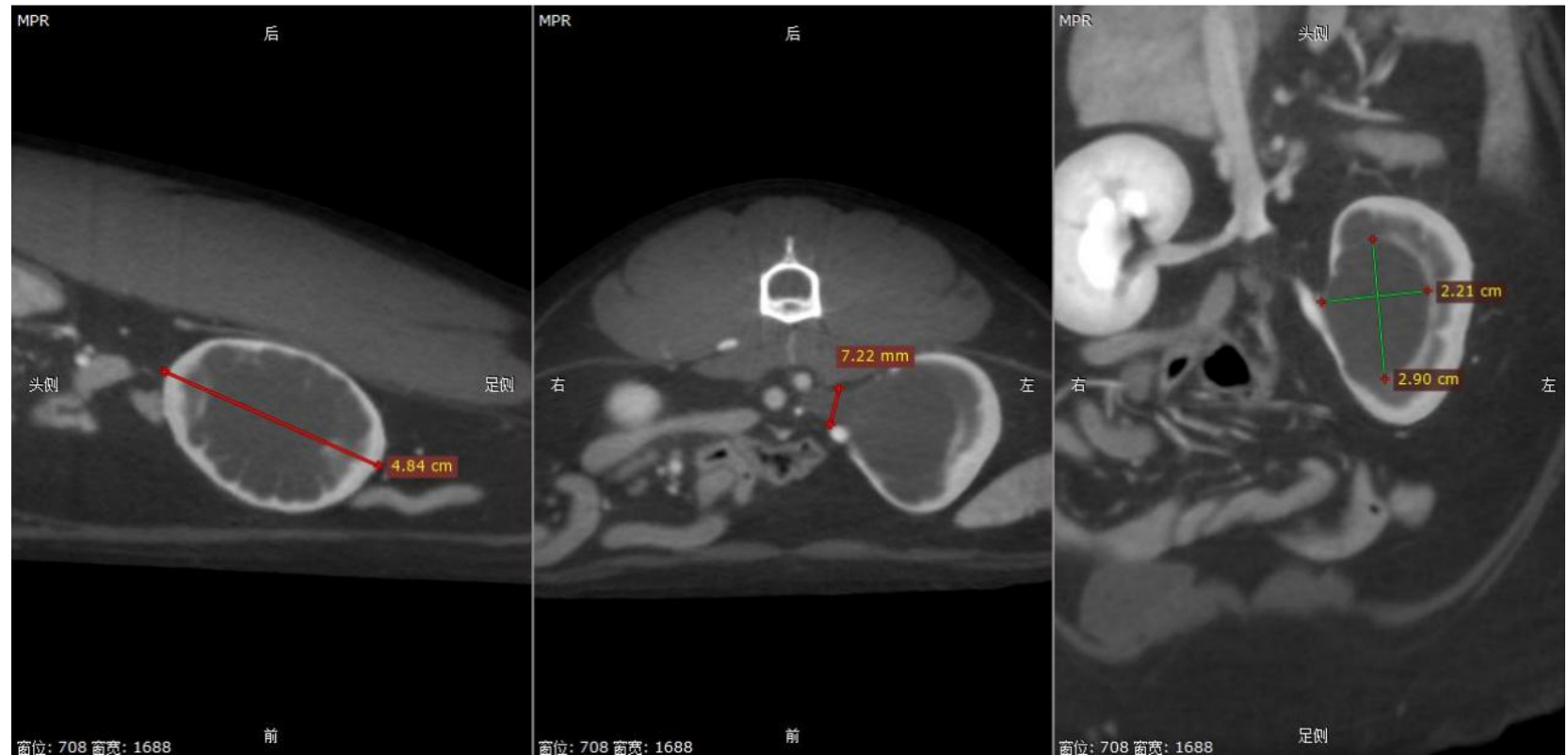


Vetist 5: Core Clinical Application Functions

Soft Tissue Imaging Mode

Function Description: Faster scanning speed and finer image details. This dedicated scanning mode is optimized for soft tissues including the abdomen (liver, spleen, kidneys), thorax (lungs, heart) and musculoskeletal system of animals. Powered by advanced image algorithms, it improves contrast between soft tissues and clearly presents the boundary, density and internal structure of lesions.

Clinical Value: As the fundamental and most commonly used imaging mode in veterinary clinics, it is widely applied in routine physical examinations, tumor screening and inflammation diagnosis. It provides veterinarians with comprehensive and detailed anatomical information.



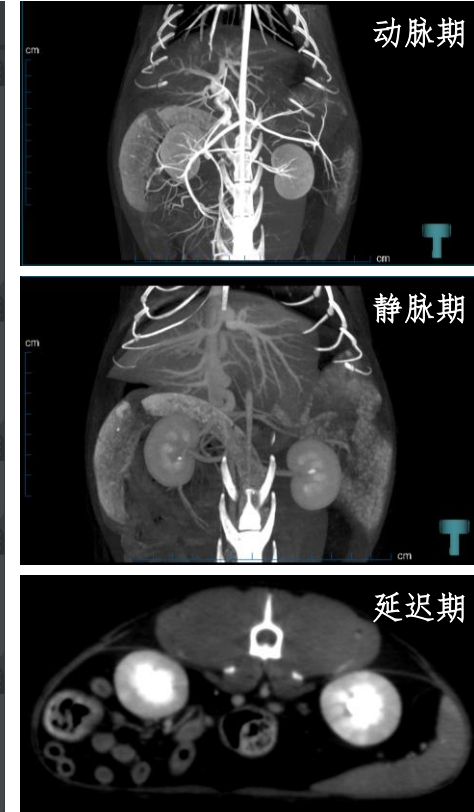
Vetist 5 :Core Clinical Application Functions



Three-Phase Contrast Capture Platform

Function Description: Built with mature contrast agent tracking algorithms that can be set based on empirical values or manually. After intravenous contrast injection, it automatically triggers and captures image data in the arterial phase (observing vascular perfusion), venous phase (observing organ enhancement), and delayed phase (observing contrast metabolism and clearance).

Clinical Value: Supports contrast-enhanced CT scans, serving as a key technology for differentiating benign and malignant tumors, assessing tumor staging, and diagnosing complex cases such as vascular malformations or thrombosis. It greatly enhances the device's advanced diagnostic capabilities.



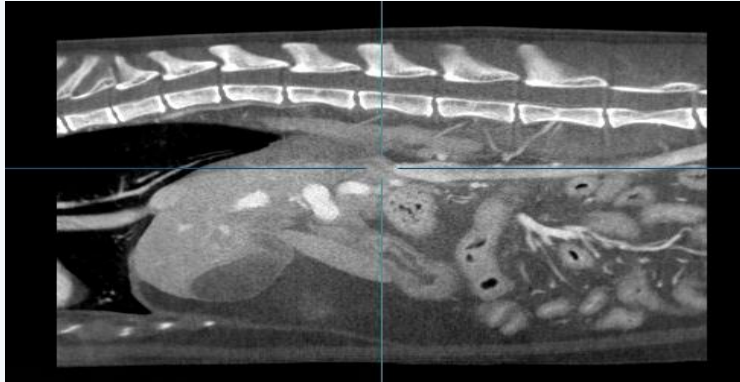
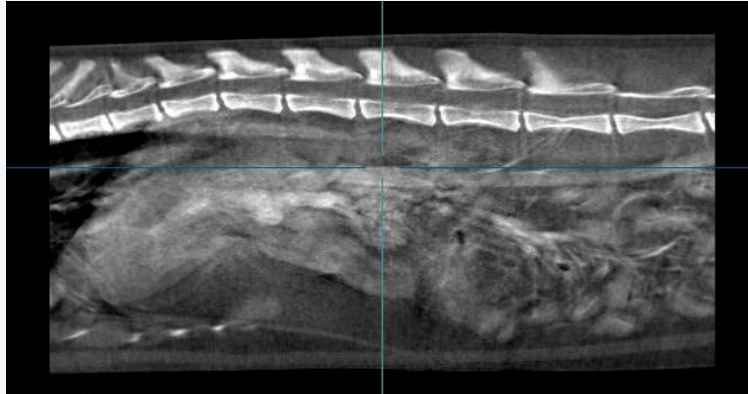


Vetist 5: World-Exclusive Technology – CT AIR

Inspiratory Hold Platform



With CT-AIR Technology



Without CT-AIR Technology



Precise Respiratory Gating to Eliminate Motion Artifacts

By guiding animals to maintain an inspiratory breath-hold state during the critical scanning phase, it effectively controls respiratory motion, minimizes image blur to the greatest extent, and ensures imaging clarity.



Improve Diagnostic Quality and Optimize Clinical Workflow

- **Clearer Images:** Significantly reduces artifacts, which is especially critical for thoracic and abdominal scans.
- **Higher Efficiency:** Obtain high-quality images in a single scan, eliminating repeat examinations and reducing costs.



Standard on All Models for Stability and Reliability

This function is standard equipment on Vetist 5 units, ensuring a consistent high-quality imaging experience across different models.

Vetist 5 :Core Clinical Application Functions



Large Field of View (FOV) Imaging Mode

Function Description: Provides a larger single axial scan coverage (FOV), reducing the number of patient repositioning and scan time for large dogs or areas requiring continuous large-range imaging (e.g., full spine, entire thoracic/abdominal cavity).

Clinical Value: Particularly suitable for rapid whole-body or large-area local screening of medium and large dogs, such as quickly assessing the entire skeleton and organs in trauma cases (e.g., traffic accidents), significantly improving the efficiency of emergency and routine examinations.



With newly upgraded projection acquisition methods and image reconstruction algorithms, it enables large-area imaging, providing a tailored solution for the application scenarios of large animal imaging.

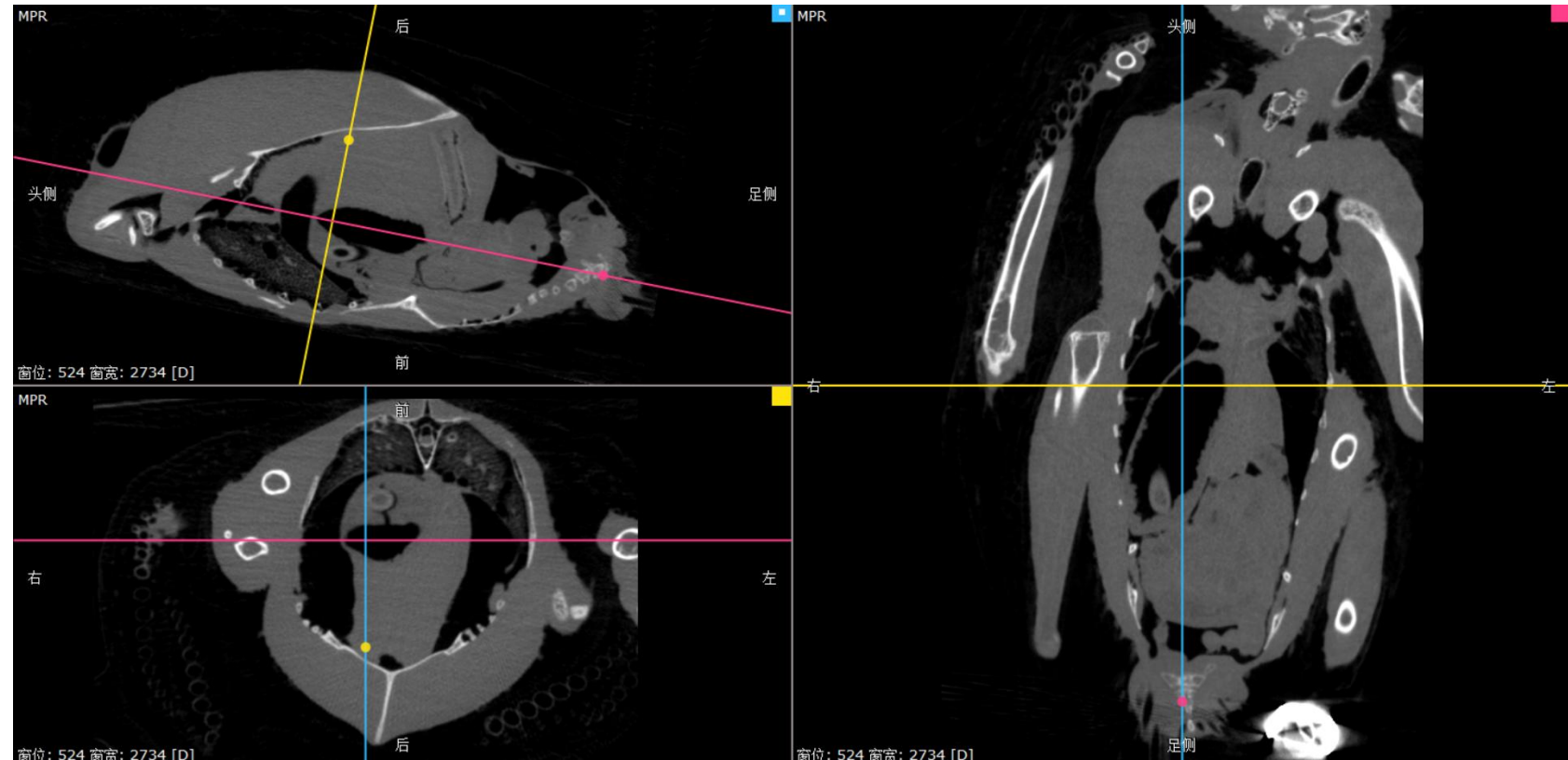
It features a large imaging diameter of 42 cm and a scanning length of 72 cm, clinically applicable for scanning animals weighing up to 60 kg.

Vetist 5: Core Clinical Application Functions

Exotic Pet High-Precision Scanning Mode

Function Description: Tailored for the unique body structures of reptiles, small mammals, birds and other exotic pets, this mode adopts customized advanced image optimization algorithms. Taking into account their uneven tissue density, tiny organs and distinctive anatomical features, it effectively enhances soft tissue resolution and inter-tissue contrast. It clearly depicts the outlines, density differences and subtle internal structures of miniature organs and lesions, and eliminates image blurring caused by their small size and overlapping tissues.

Clinical Value: It meets the diagnostic and treatment needs for hamsters, chinchillas, lizards, turtles, birds and other exotic pets, and makes up for the deficiency of conventional scanning in detecting subtle lesions of exotic animals.



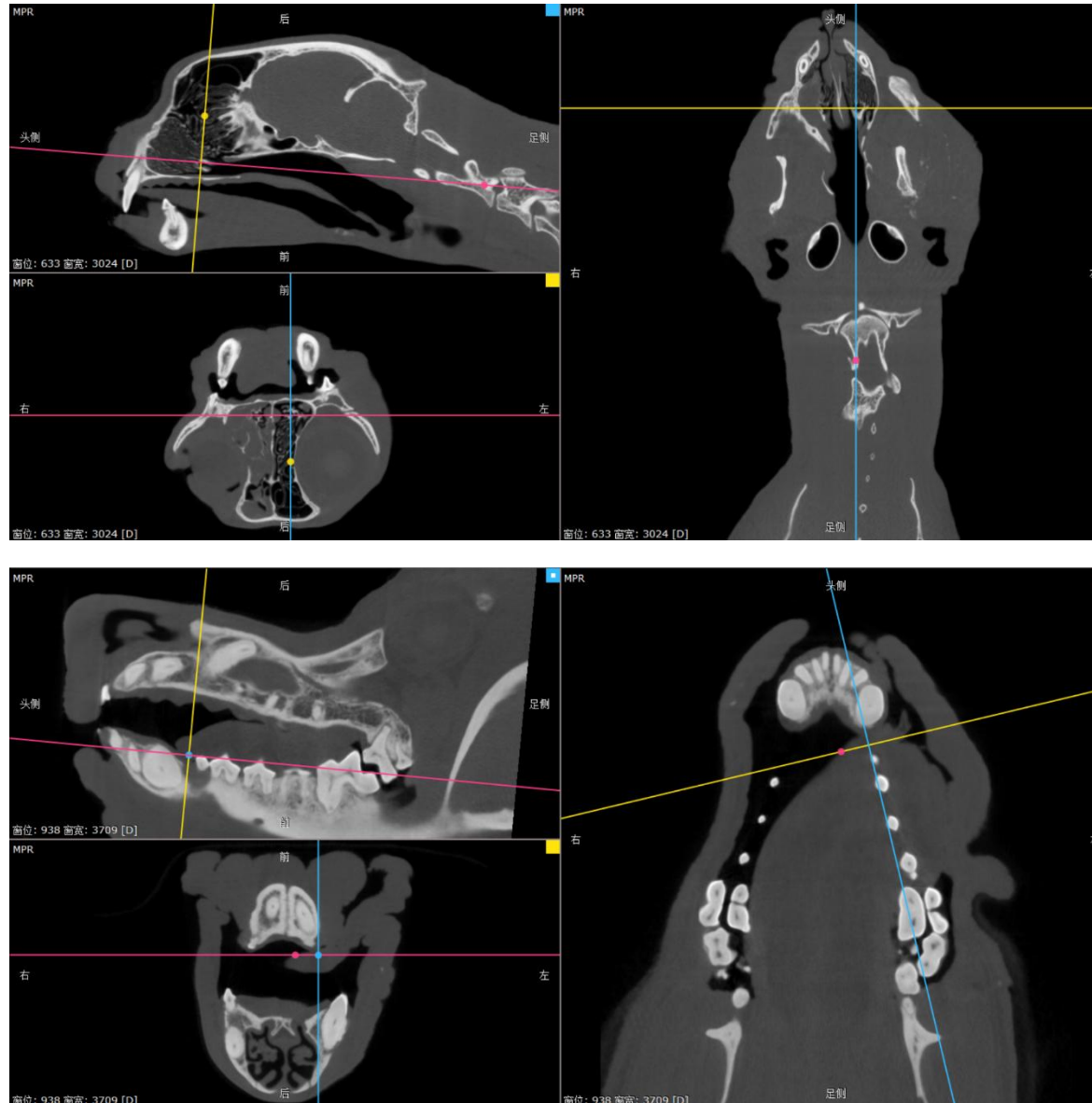
Vetist 5: Core Clinical Application Functions



Dual-Field Bone Imaging Mode

Function Description: This specialized scanning mode is optimized for the musculoskeletal system. With refined image algorithms, it boosts contrast of bony structures, clearly presenting the boundary, density and intricate internal features of bone tissues and lesions.

Clinical Value: It serves as an essential imaging mode for routine orthopedic checkups, fracture diagnosis and joint lesion screening in veterinary practices, delivering accurate anatomical details to support reliable clinical diagnosis.



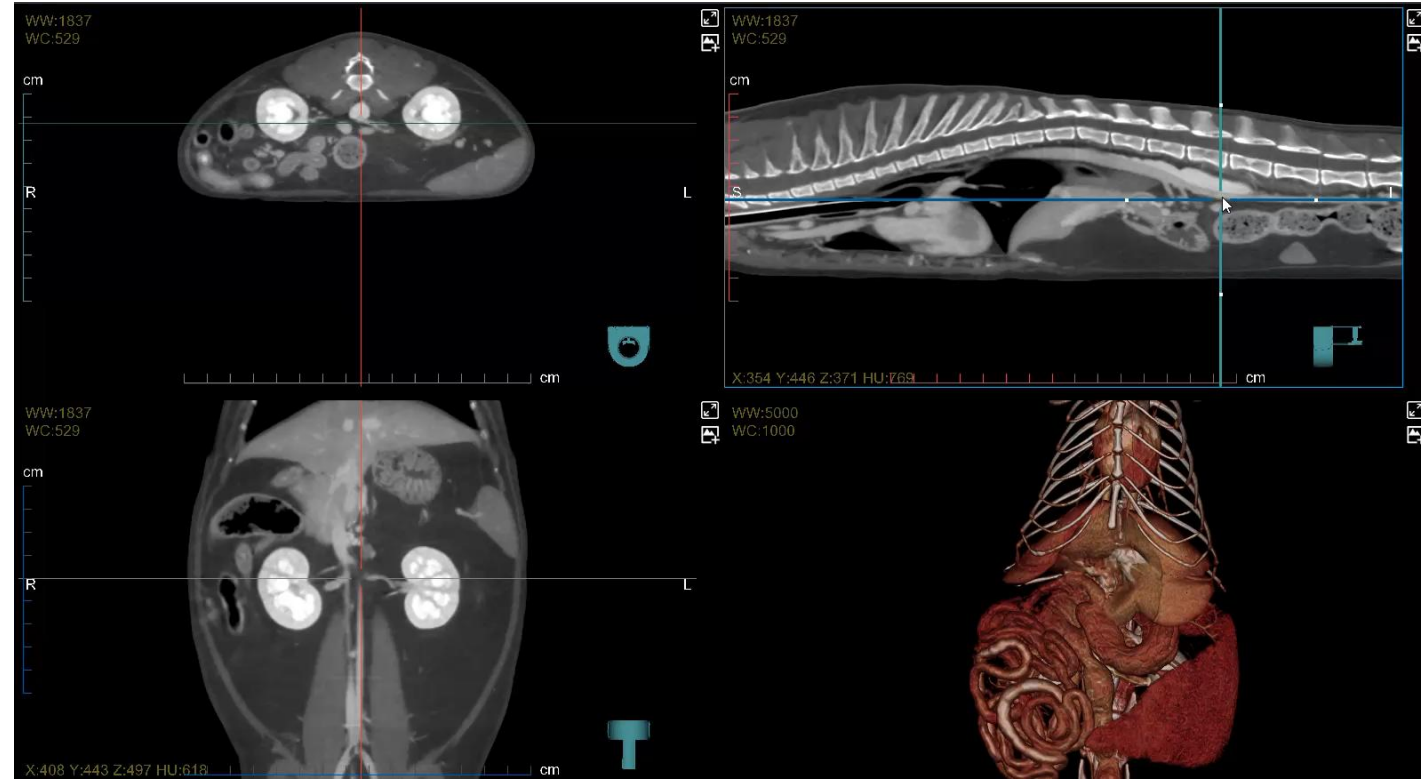


Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



Comprehensive Image Post-Processing System

Built-in tools including MIP reconstruction, 3D volume reconstruction, etc.





Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform

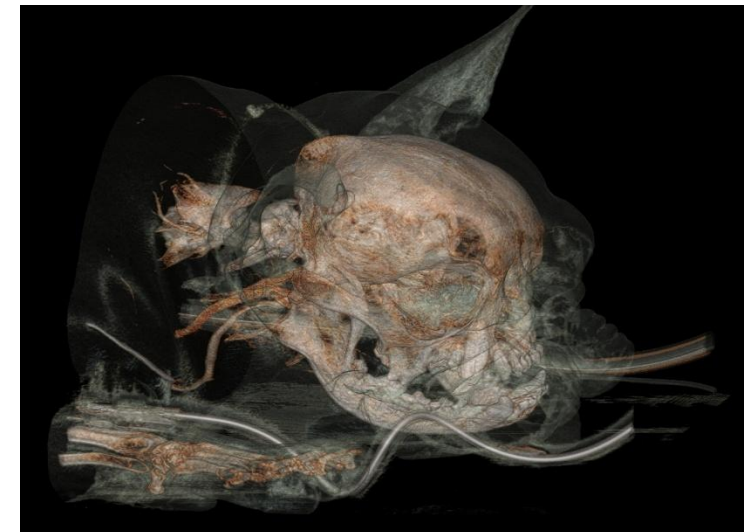
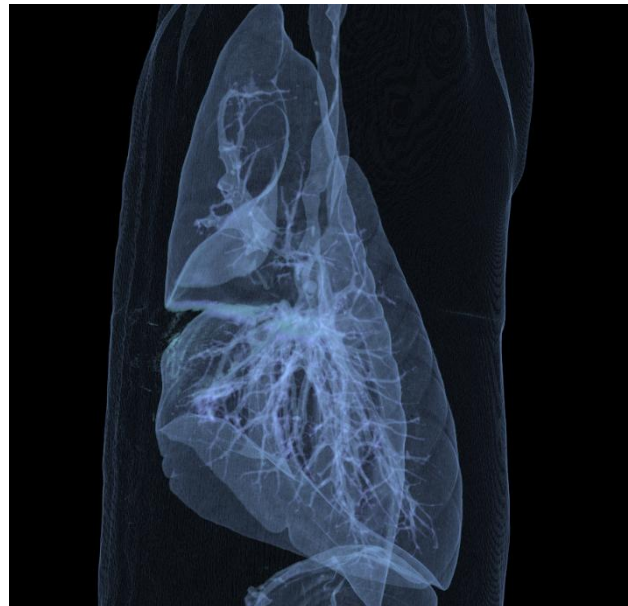
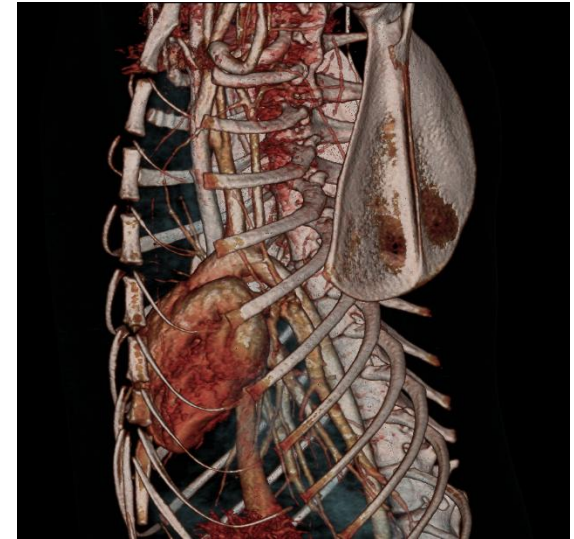


➤ 3D Volume Rendering (VR) Reconstruction Technology



Comprehensive Image Post-Processing System

Built-in tools including MIP reconstruction, 3D volume reconstruction, etc.





Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform

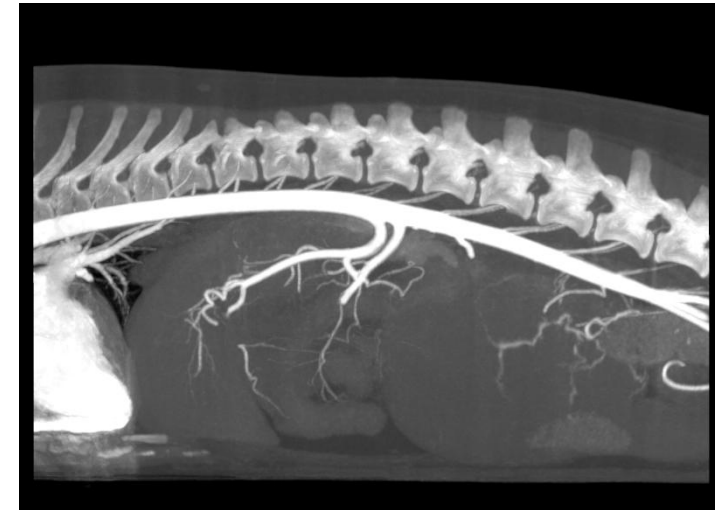
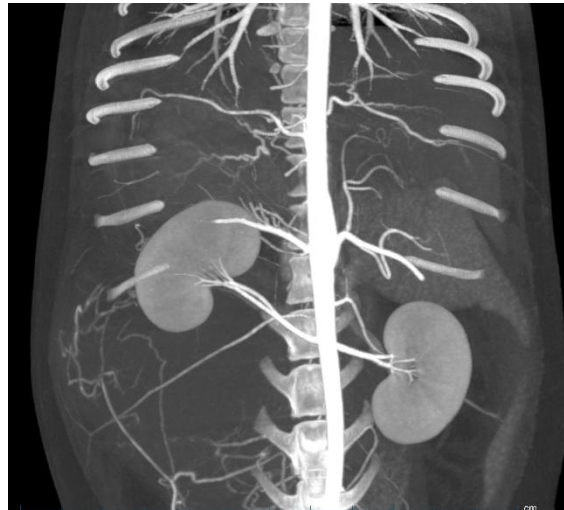


Powerful & Comprehensive Software Algorithms

Maximum Intensity Projection (MIP), soft tissue filtering, bone filtering, lung filtering, image denoising algorithms, etc.

➤ Maximum Intensity Projection, MIP

Penetrating the entire 3D volume data along a predefined line of sight, it automatically selects and projects the pixels with the highest CT values (i.e., the brightest and densest) along the path. It excels at non-invasively displaying the morphology, course, stenosis, dilation (e.g., aneurysms) and calcification of blood vessels, making it an indispensable post-processing technique for CTA (CT angiography).





Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



Powerful & Comprehensive Software Algorithms

Maximum Intensity Projection (MIP), soft tissue filtering, bone filtering, lung filtering, image denoising algorithms, etc.



Designed for high-density skeletal structures, it enhances edge sharpness and clearly displays trabecular bone details and micro-fracture lines.



It optimizes lung field contrast, effectively suppresses noise, and improves the conspicuity of ground-glass nodules and solid nodules.



It automatically adjusts window width and window level to highlight soft tissue layers and assist in the detection of early micro-lesions.

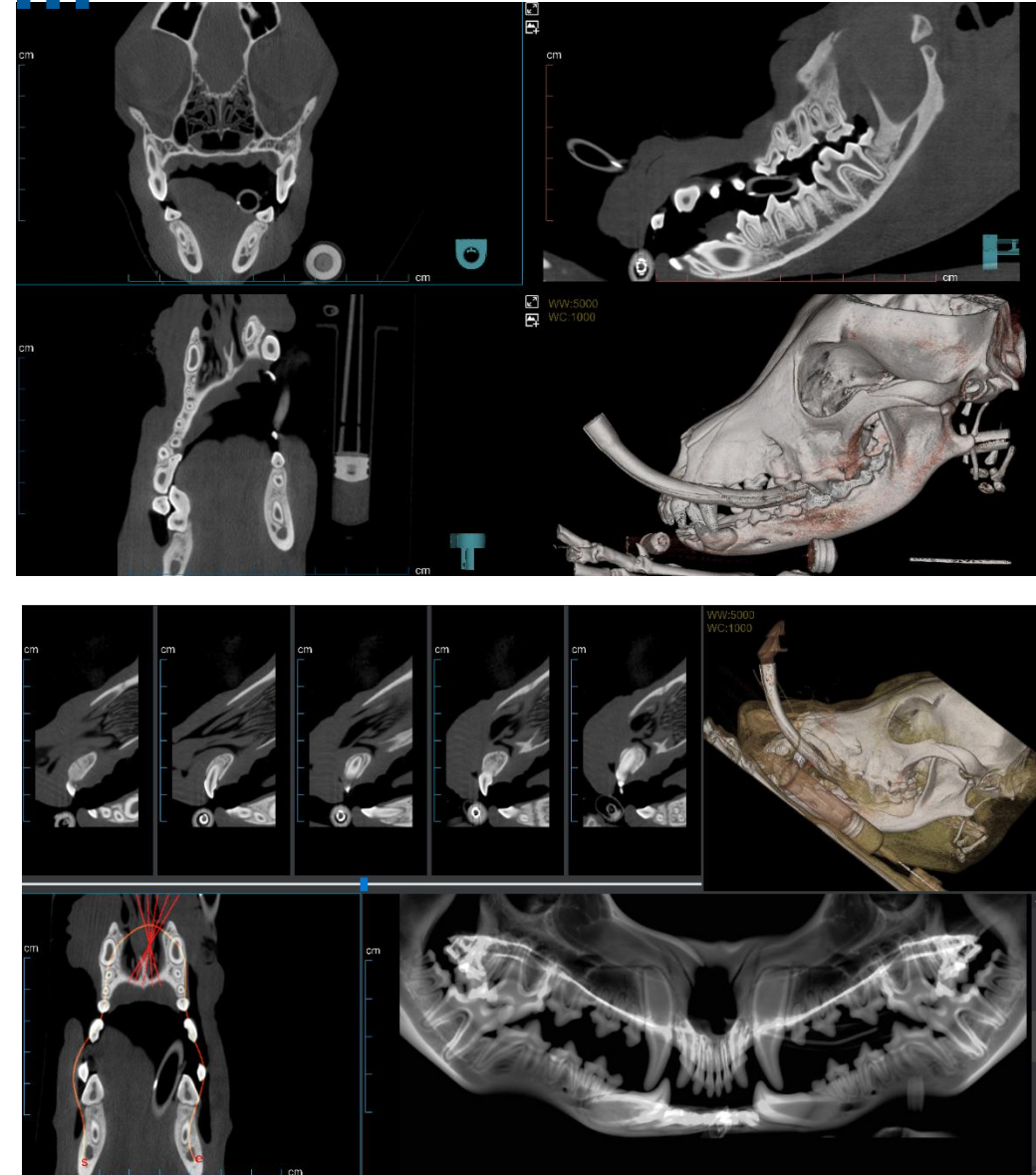


Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



Dental Treatment Platform

Generates panoramic dental images, supporting custom anchor points, maximum intensity projection, simulated X-ray images, tooth cross-section slicing, refocusing layer redefinition, etc.





Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



Full Compatibility with All Vetist 5 Software

Functions

Compatible with all software functions of Vetist 5 to meet basic and routine usage requirements.

Functions	
Maximum and Minimum Intensity Projection (MIP/MinIP)	√
Bone Filtering, Soft Tissue Filtering, Lung Filtering	√
Experience-Based Triggered Three-Phase Contrast Capture Platform	√
Soft Tissue Imaging Mode	√
Large Field-of-View (FOV) Imaging Mode	√
Dental Treatment Planning Platform	√
Intelligent Report Assistance System	√
Efficient and User-Friendly Image Post-Processing Platform	√

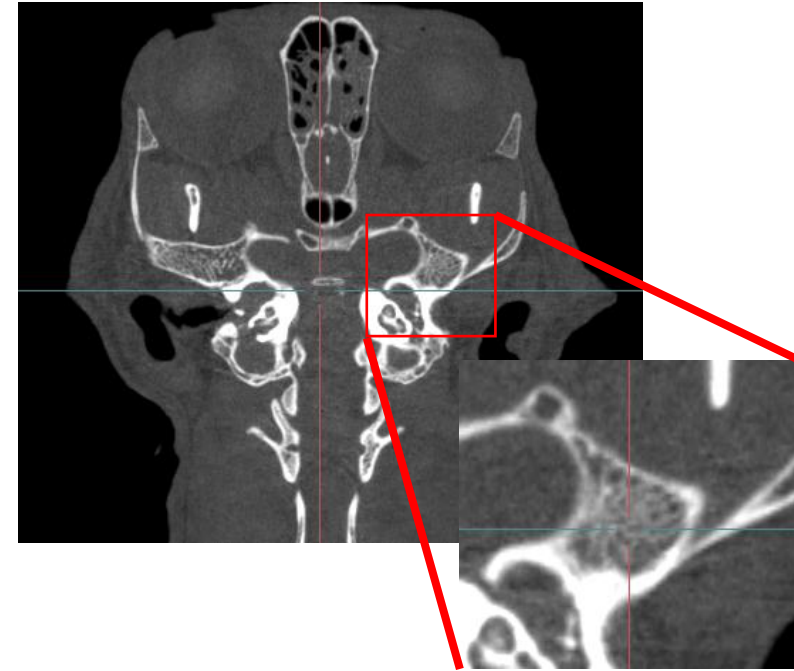


Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



Region of Interest (ROI) Refocusing

Technology It performs intelligent ROI detection on the target area and carries out secondary refocusing.



- **Key Area Locking:** Automatically identifies anatomical regions of interest to the clinician, enabling precise imaging.
- **Enhanced Clarity:** Improves local contrast of fine details, making pathological features more prominent.
- **Noise and Interference Reduction:** Suppresses non-critical background noise and reduces visual distractions.



Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



Metal Artifact Reduction Technology

Based on spectral calibration technology and AI algorithms, it intelligently calibrates images affected by metal implants.



This technology effectively suppresses the radial artifacts caused by metal implants such as orthopedic internal fixation devices through advanced algorithmic models. It significantly improves image quality and clearly restores the true tissue images surrounding the metal implants, providing reliable evidence for clinical diagnosis.



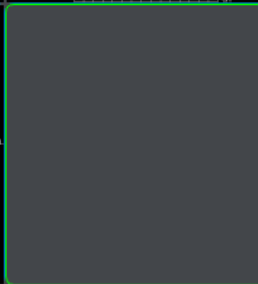
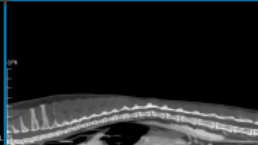
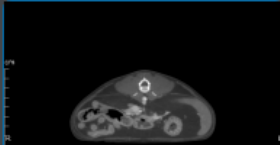
Vetist 5: Intelligent & Efficient Veterinary CT Image Processing Platform



⚡ Database-Assisted Reporting System

Built on a database framework, it assists veterinarians in composing CT reports efficiently.

Print



Description

Non-enhanced cranial CT scan shows no significant abnormal density shadows in all scanned layers.
Non-enhanced cranial CT scan shows no significant abnormal density shadows in all scanned layers.

Result

No abnormalities detected on non-enhanced and enhanced cranial CT scans in all scanned layers.
Impression: Left/Right basal ganglia/

Doctor

Region

Brain

Type

None

Intracerebral Hem

Scalp Swelling

Hydrocephalus

None

Intracer

>>

×

✓





Committed to becoming the world's leading
brand in veterinary CT imaging

Thank you!



Rayvision Medical Limited